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## AMENDMENT UNDER 37 C.F.R. § 1.111

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Technology Center 2100

first obtaining a protocol encoded raw form of a data and thereafter generating said synax-normalised form from said protocol encoded raw form of the data.

3. (Amended) A method of storing data in a database, as claimed in claim 1, wherein said storing step comprises:

maintaining both the syntax-normalised form and the protocol encoded raw form of the data for data base searching and data retrieval.

- 4. (Amended) A method of storing data in a database, as claimed in claim 3, wherein said maintaining step comprises maintaining said protocol encoded raw form and syntax-normalised form of a data in at least two tables concurrently.
- 5. (Amended) A method of storing data in a database, as claimed in claim 4, wherein said maintaining step further comprises correlating the storage location of said protocol encoded raw form and said normalised form in said at least one table.
- 12. (Amended) A method of locating data in a database, wherein said data is stored linked to a syntax-normalised form of the data, comprising the step of:

locating said protocol encoded raw data by searching on said syntax-normalised form of the data.

31. (Amended) A database apparatus comprising:

means for obtaining both a protocol encoded raw form of a data to be stored and a syntax-normalised form of said data; and

- a storage medium for storing concurrently both the syntax-normalised form and the protocol encoded raw form of said data.
- 32. (Amended) A database apparatus for storing data in a database, as claimed in claim 31, wherein said means for obtaining comprises:

means for first obtaining a protocol encoded raw form of a data and thereafter generating said syntax-normalised form from said protocol encoded raw form of the data.

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33. (Amended) A database apparatus for storing data in a database, as claimed in claim 31, wherein said storage medium is operative to maintain both the syntax-normalised form and the protocol encoded raw form of the data for data base searching and data retrieval.

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- 34. (Amended) A database apparatus for storing data in a database, as claimed in claim 33, wherein said storage medium is operative to maintain said protocol encoded raw form and syntax-normalised form of a data in at least two tables.
- 35. (Amended) A database apparatus for storing data in a database, as claimed in claim 34, wherein said

storage locations of said protocol encoded raw form and said syntax-normalised form of data are correlated in said at least two tables.

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41. (Amended) An apparatus for locating data in a database, wherein said data is stored in a table in a protocol encoded raw form and linked to a concurrently stored syntax-normalised form of the data, comprising:

means for locating said protocol encoded raw form of the data by searching on said syntax-normalised form of the data.

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56. (Amended) In a directory/service system, having a database in which data is stored in a first form, being a protocol encoded raw form, and a second form, being a syntax-normalised form, apparatus for transferring data into and out of the database, comprising:

means for finding data in the database using a syntax-normalised form; and means for transferring data out of the database using a protocol encoded raw form.

- 57. (Amended) A computer program product, including a storage medium for storing a computer program, the computer program being executable to perform a method as claimed in any one of claims 1/-5.
- 58. (Amended) / A method as claimed in any one of claims 1-6 and 27-29 wherein the protocol encoded raw form of data is stored in ASN.1 format.

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An apparatus as claimed in any one of claims 31-43 wherein said 60. (Amended) protocol encoded raw data or data is stored in ASN.1 format.